

Title (en)  
Pneumatic tire

Title (de)  
Luftreifen

Title (fr)  
Pneu

Publication  
**EP 2653320 B1 20160720 (EN)**

Application  
**EP 13163870 A 20130416**

Priority  
JP 2012094082 A 20120417

Abstract (en)  
[origin: EP2653320A2] A pneumatic tire comprises a tread portion provided with a circumferential shoulder main groove, shoulder lateral grooves extending from the shoulder main groove toward a tread edge, and middle lateral 1 grooves extending from the shoulder main groove toward a tire equatorial plane, the shoulder main groove extending in a zigzag manner through an axially innermost and outermost points alternately, each middle lateral groove extending from each innermost point of the shoulder main groove with an angle of 50-75 degrees with respect to a tire axial direction, and each shoulder lateral groove extending from the shoulder main groove with the same inclination direction with the middle lateral groove at an angle of 10-25 degrees with respect to the tire axial direction, wherein the number of shoulder lateral grooves is larger than the number of middle lateral grooves.

IPC 8 full level  
**B60C 11/04** (2006.01)

CPC (source: EP US)  
**B60C 11/03** (2013.01 - US); **B60C 11/0306** (2013.01 - EP US); **B60C 11/0332** (2013.01 - EP US); **B60C 11/0318** (2013.01 - EP US); **B60C 2011/0346** (2013.01 - EP US); **B60C 2011/0358** (2013.01 - US); **B60C 2011/0365** (2013.01 - EP US); **B60C 2011/0372** (2013.01 - EP US); **B60C 2011/0374** (2013.01 - US); **B60C 2011/0388** (2013.01 - US)

Cited by  
CN110352136A; EP3590732A4; US9738120B2; US11511568B2; EP2923860A3; EP3121033A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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**EP 13163870 A 20130416**; CN 201310133765 A 20130417; JP 2012094082 A 20120417; US 201313861444 A 20130412